

CORRECTED VERSION

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
15 January 2004 (15.01.2004)

PCT

(10) International Publication Number  
**WO 2004/005412 A3**

- (51) International Patent Classification<sup>7</sup>: **C09D 11/00**, (74) Agent: **ELKINGTON AND FIFE LLP**; Prospect House, 8 Pembroke Road, Sevenoaks, Kent TN13 1XR (GB).  
11/10
- (21) International Application Number: **PCT/GB2003/002954** (81) Designated States (*national*): JP, US.
- (22) International Filing Date: **8 July 2003 (08.07.2003)** (84) Designated States (*regional*): European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR).
- (25) Filing Language: **English** Published: — *with international search report*
- (26) Publication Language: **English** (88) Date of publication of the international search report: 4 March 2004
- (30) Priority Data: **0215854.1** **9 July 2002 (09.07.2002)** **GB** (48) Date of publication of this corrected version: 26 August 2004
- (71) Applicant (*for all designated States except US*): **SERCOL LIMITED** [GB/GB]; Patricia Way, Pysons Road Industrial Estate, Broadstairs, Kent CT10 2LE (GB). (15) Information about Corrections:  
see PCT Gazette No. 35/2004 of 26 August 2004, Section II  
**Previous Correction:**  
see PCT Gazette No. 14/2004 of 1 April 2004, Section II
- (72) Inventor; and
- (75) Inventor/Applicant (*for US only*): **NOUTARY, Carole** [FR/GB]; Lloyd House, 19 Lloyd Road, Broadstairs, Kent CT10 1HZ (GB). *For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: **PRINTING INK FOR INK-JET PRINTING**

(57) Abstract: This invention relates to inks for use in ink-jet printers that are cured using ultraviolet radiation. Specifically, the present invention relates to an ink-jet ink which is substantially free of water, volatile organic solvents and multifunctional (meth)acrylates, comprising at least one monofunctional (meth)acrylate monomer, at least one  $\alpha,\beta$ -unsaturated ether monomer, at least one radical photoinitiator and at least one colouring agent, the ink having a viscosity of less than 50 mPas at 25°C. This provides extra-low viscosity inks, which still meet the requirements for printing onto porous substrates such as paper and board.

WO 2004/005412 A3